



Finance and Administrative Services Department • Purchasing Division  
500 Castro Street • Post Office Box 7540 • Mountain View, California 94039-7540 • 650-903-6324 • FAX 650-968-5472

January 11, 2010

*Insert Company Name & Address*

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**REQUEST FOR PROPOSALS FOR NO. R091334 -1 FABRICATION AND DELIVERY  
OF ONE (1) MODULAR BUILDING.**

The City of Mountain View invites your submittal of a proposal to provide the above-referenced goods and/or services according to the attached specifications, terms and conditions. Please complete this proposal as instructed below and return to the City at the address specified below and by the date due for proposal submittals.

TO: Chris Hartje, Supervising Buyer  
City of Mountain View  
500 Castro Street  
Mountain View, CA 94041  
or  
P.O. Box 7540  
Mountain View, CA 94039-7540

The undersigned proposes to furnish to the City of Mountain View goods and/or services as defined herein for the prices shown herein in accordance with the specifications, terms and conditions attached hereto.

This Request for Proposals includes the following sections:

- Section 1: Instructions for Submitting Bids (Pages 2-3)
- Section 2: Terms and Conditions (Pages 4-11)
- Section 3: Specifications (Pages 12-35)
- Section 4: Bid Schedule (Pages 36-38)
- Section 5: References (Pages 39-40)
- Section 6: Attachments: RFP-01 Site Plan, RFP-02 Floor Plan, RFP-03 Elevation,  
RFP-04 Vent Well Detail, RFP-05 Flashing Detail

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**SECTION A: INSTRUCTIONS FOR SUBMITTING RESPONSES**

1. **Date Due:** 4:00 PM, MONDAY, JANUARY 25, 2010

2. **Preproposal Conference/Walk-Through:**

☐ Required      ☒ Optional

If required, the date, time and location of the preproposal conference/walk-through will be noted below. If required, the Vendor must attend the preproposal conference/walk-through to ensure that the Vendor is completely familiar with the work requested. The Purchasing and Support Services Manager may waive this requirement if, in the opinion of the Purchasing and Support Services Manager, the Vendor is familiar with the job.

**The preproposal conference/walk-through will be held at 10:00 a.m. on Tuesday, January 19, 2010 at project site located at 301 N. Rengstorff Avenue, Mountain View, California.**

3. **Questions:** Please contact Chris Hartje, Supervising Buyer at (650) 903-6324 for questions regarding this proposal process, or call Fred Fallah at (650) 903-6311 for questions regarding the specifications and/or requirements.

4. **Reply Format:** The entire proposal form, including all attachments, must be returned by the due date to the above address. Vendors must submit three (3) copies of the proposal. Please minimize the bulk of your proposal by only submitting one (1) copy of standard brochures and materials. You are free to organize your proposal as you wish, as long as it includes the requested information and all of the forms included in this Request for Proposals (RFP) are completed as required. Vendors must number all pages of any attachments to the RFP and reference page and paragraph number of the RFP for all comments to the RFP. Vendors are asked to clearly identify any limitations or exceptions to the requirements inherent in this Request for Proposals. Alternative approaches will be given consideration if the approach clearly offers increased benefits to the City.

The proposal must include at least five (5) references of recent similar work experience, preferably for city governments. These references must include a contact person, phone number, length of time with the reference and brief description of the work/deliverables performed. The proposal must also include

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the Vendor's: most recent audited financial statements; number of years in business; description of any current ongoing litigation and who the litigation is with; number of employees in Northern California (listed by type of job category); business organization chart; ownership of your company; resumés of owner, president and/or top managers; and particular information regarding the individual who will be responsible for the work/deliverables requested in this RFP.

5. **Responsiveness and Selection Process:** The decision for selection will be made on a combination of criteria, including: total cost (including ongoing operating costs) and proposed value; similar successful experience; project management approach; technical merit; documented experience of employees to be involved with this service; quality and completeness of proposal; proof of warranty and repair services; degree and number of exceptions to specifications; proof of equivalency; flexibility and ability to be proactive; Vendor's ability to start the required services in a timely fashion; perception of company stability; and, if requested, oral presentation and tour of current similar work sites.

The City reserves the right to reject any and all proposals or to waive any minor errors, discrepancies or irregularities. The selection will be at the discretion of the Purchasing and Support Services Manager and may be made in any manner that best meets the needs of the City.

6. **Proposed Contract:** If one of the attachments to this RFP is a proposed contract, then the City intends to use the contract form in awarding this RFP. Vendors should review the terms and conditions contained in the contract and must note any exceptions, additions or modifications they would propose. Blanket substitution of the Vendor's standard contract for the City's proposed contract will not be permitted. If there is no attachment of a proposed contract, then the City plans to use the terms and conditions listed herein. If the Vendor desires to include additional terms and conditions, those terms and conditions to be added must be included in the Vendor's proposal and must be in a format easily readable by the City, to be at least 12-point type in black ink on white paper.

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SECTION II: TERMS AND CONDITIONS

1. **Payment Terms:** The City's terms are, at a minimum, net thirty (30) days after receipt of all goods and/or services and receipt of an approved invoice. Proposer is required to submit alternative payment options for City consideration with bid proposal.
2. **Time of Delivery/Completion:** Time is of the essence on this purchase order. The Vendor shall deliver all of the goods or complete all of the services called for under this proposal within the number of working/calendar days or by the date specified for completion in this proposal, unless the delays are caused by the City or by acts of God. Failure to deliver on time shall be grounds for termination of this Agreement or invoke "Liquidated Damages" if required below.
3. **Freight Charges:** All prices bid shall include all freight costs and ownership transfers to the City at the City's location and are F.O.B. destination to the designated locations. Freight, if quoted separately, shall be prepaid and added to the invoice with ownership transferring to the City when delivery is completed to the City's location.
4. **Liquidated Damages:**

☒ Required      ☐ Not Required

If required, it is agreed by the Vendor that if the goods or services are not delivered complete, as called for in this proposal, damages will be sustained by the City, and that it is and will be impracticable and extremely difficult to ascertain and determine the actual damage which the City will sustain in the event of and by reason of such delay; and it is, therefore, agreed that the Vendor will pay to the City the sum of Three Hundred Fifty Dollars (\$350) per day for each and every calendar day's delay in finishing the work in excess of the number of working or calendar days prescribed or in excess of the date specified for completion or delivery of the goods or services, whichever is applicable in this Proposal; and the Vendor agrees to pay said liquidated damages as herein provided; and in case the same are not paid, agrees that the City may deduct the amount thereof from any moneys due or that may become due the Vendor under this proposal.

Partial payments paid to the Vendor after the scheduled completion dates shall not be constituted as a waiver of the City's right to assess liquidated damages.

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5. **Firm Prices:** All quotes will be held firm for a minimum of thirty (30) days after the proposal due date listed above to allow adequate time for the City to consider each proposal and make an award. All blanks for unit price and total price shall be completed. Any discrepancy between the unit price and the extended or total price shall be determined by taking the lower price. Upon receipt of this proposal by the City, the Vendor shall be presumed to be thoroughly familiar with all the aspects of this proposal, including installation sites and all specifications and requirements of this proposal. The failure or omission to examine any location, equipment, form, instrument or document shall in no way relieve Vendor from any obligation in respect to this proposal.
6. **Warranty:** The delivered or installed goods, equipment or services shall be warranted to be free from defects in materials and workmanship. The warranty period shall begin upon acceptance by the City. As a minimum, all goods, equipment and services shall be warranted to operate satisfactorily in accordance with the requirements of these specifications, the representations of the Vendor and the published specifications of the manufacturer(s) for a period of at least one (1) year. Any defective goods, equipment or services shall be replaced or repaired within three (3) days at the City's location during the warranty period at no expense to the City.
7. **Prevailing Wages:**

☐ Required      ☒ Not Required

If required, notice is hereby given that the latest general prevailing rate of per diem wages, as determined by the Director or the Department of Industrial Relations, State of California, is to be paid to the various craftsmen and laborers employed in the construction of this project and is made a part of the specifications and contract for this project.

Reference is hereby made to copies of the general rate of per diem wages as determined by the Director of the Department of Industrial Relations on file in the Department of Public Works, City of Mountain View, which are available to any interested party.

For failure to pay the prevailing wages, the contractor shall forfeit, as a penalty, to the City, Fifty Dollars (\$50) for each workman for each calendar day or portion thereof who is paid less than the stipulated prevailing wage for work done under this contract, in violation of the provisions of the Labor Code, Sections 1770 to

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1780, inclusive. In addition to said penalty, the contractor, or subcontractor, shall pay to each worker the difference between the prevailing wage and the amount paid to said worker for each calendar day for which said worker was paid less than the prevailing wage.

8. **MSDS:** General Industrial Safety Order 5195 requires Material Safety Data Sheets (MSDS) be supplied, for all applicable items, with the initial delivery.
9. **Licensed Contractor:** All contractors bidding on work requiring a State of California Contractor's License must state under penalty of perjury that they are a licensed contractor by listing their license number, date of expiration, type of license and description of that type of license. A Class B General Building Contractor License is required.

Contractor's License No.: \_\_\_\_\_

Date of Expiration: \_\_\_\_\_

Type of License: \_\_\_\_\_

Description of License: \_\_\_\_\_

10. **Ownership and Collusion—Financial Interest by City Employees:** The bidder certifies, by signing this proposal, that he/she has not, directly or indirectly, been collusive with any other vendor or anyone else interested in this proposal. Additionally, the Vendor stipulates that no City officer or employee shall be financially interested, either directly or indirectly, in any contract, sale, purchase or lease to which the City is a party, and the Vendor stipulates that no City officer or employee has greater than five percent (5%) ownership in this company, as per Section 706 of the City of Mountain View Charter.
11. **Independent Contractor:** It is agreed that the Vendor is an independent contractor, and all persons working for or under the direction of the Vendor are Vendor's agents, servants and employees, and said persons shall not be deemed agents, servants or employees of the City.
12. **Assignment:** This Agreement, nor any part of this Agreement, may be assigned without the written consent of the other party.
13. **Termination:** The City may terminate this Agreement at any time with ten (10) days' written notice. The City will only pay for goods or services ordered and accepted by the City. Any payments made in advance will be returned to the City on a prorated basis, with the City only paying for those services actually provided.

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14. **Funding Out Clause:** The City may terminate this Agreement every June 30, based upon the City Council not funding the purchase of goods or services to be provided in this Agreement after each July 1.
15. **Nondiscrimination.** The Vendor shall afford equal employment opportunities for all persons without discrimination because of race, color, religion, sex, sexual orientation, political affiliation, national origin, ancestry, age, marital status or physical or mental disability.
16. **Applicable Laws and Attorneys' Fees:** This Agreement shall be construed and enforced pursuant to the laws of the State of California. Should any legal action be brought by a party for breach of this Agreement or to enforce any provision herein, the prevailing party of such action shall be entitled to reasonable attorneys' fees, court costs and such other costs as may be fixed by the court. Reasonable attorneys' fees of the City Attorney's Office, if private counsel is not used, shall be based on comparable fees of private attorneys practicing in Santa Clara County.
17. **Subcontractors:** The City prefers a proposal with a single or primary vendor. If you propose a multi-vendor or subcontracted approach, clearly identify the responsibilities of each party and the assurances of performance you offer. The Vendor is the prime contractor and is solely responsible for all of the Vendor's subcontractors.
18. **Insurance:**
  - a. **Commercial General Liability/Automobile Liability Insurance:** The Vendor shall obtain Commercial General Liability insurance and Automobile Liability insurance in the amount of One Million Dollars (\$1,000,000) per occurrence. If a general aggregate limit is used, either the general aggregate limit shall apply separately to this contract or the general aggregate limit shall be twice the required occurrence limit. The Vendor's insurance coverage shall be written on an occurrence basis.
  - b. **Professional Liability Insurance:**

☒ Required      ☐ Not Required

If required, the Vendor shall obtain Professional Liability insurance in the amount of One Million Dollars (\$1,000,000) per occurrence. Professional

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- Liability insurance must be maintained and evidence of insurance shall be provided to the City for at least three (3) years after completion of work.
- c. Workers' Compensation Insurance: The Vendor shall obtain statutory Workers' Compensation insurance and Employer's Liability insurance in the amount of One Million Dollars (\$1,000,000) per accident.
  - d. Acceptability of Insurers: Insurance is to be placed with insurers with a current *Best Rating* of A:VII unless otherwise acceptable to the City.
  - e. Verification of Coverage: Insurance, deductibles or self-insurance retentions shall be subject to the City's approval. Original Certificates of Insurance with endorsements shall be received and approved by the City before work commences, and insurance must be in effect for the duration of the contract. The absence of insurance or a reduction of stated limits shall cause all work on the project to cease. Any delays shall not increase costs to the City or increase the duration of the project.
  - f. Other Insurance Provisions:
    - (1) The City of Mountain View, its officers, officials, employees and volunteers are to be covered as additional insured by Endorsement CG 20 10 11 85 for Commercial General and Automobile Liability coverage.
    - (2) For any claims related to this project, the Vendor's insurance coverage shall be primary and any insurance or self-insurance maintained by the City, its officers, officials, employees and volunteers shall not contribute to it.
    - (3) Each insurance policy required shall be endorsed that a thirty (30) day notice be given to the City in the event of cancellation or modification to the stipulated insurance coverage.
    - (4) In the event the Vendor employs subcontractors as part of the work covered by this Agreement, it shall be the responsibility of the Vendor to ensure that all subcontractors comply with the same insurance requirements that are stated in this Agreement.

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- (5) Approval of the insurance by City or acceptance of the Certificate of Insurance by City shall not relieve or decrease the extent to which Vendor may be held responsible for payment of damages resulting from Vendor's services or operation pursuant to this Agreement, nor shall it be deemed a waiver of City's rights to insurance coverage hereunder.
- (6) If, for any reason, Vendor fails to maintain insurance coverage that is required pursuant to this contract, the same shall be deemed a material breach of contract. City, at its sole option, may terminate this contract and obtain damages from Vendor resulting from said breach. Alternately, City may purchase such required insurance coverage, and without further notice to Vendor, City may deduct from sums due to Vendor any premium costs advanced by City for such insurance.

19. **Hold Harmless:**

- a. If Professional Liability Insurance **IS** required:

Vendor hereby agrees to and shall indemnify, defend and hold City, its officers, agents and employees harmless from any liability for damage or claims for damage for personal injury, including death and/or property damage, caused by negligent acts, errors or omissions in performance of professional services under this Agreement by Vendor or Vendor's contractors, subcontractors, agents or employees' operations under this Agreement. City shall cooperate reasonably in the defense of any action, and Vendor shall employ competent counsel, reasonably acceptable to the City Attorney.

- b. If Professional Liability Insurance **IS NOT** required:

Vendor shall defend, indemnify and hold City, its officers, employees and agents harmless from any liability for damage or claims of same, including but not limited to personal injury, property damage and death, which may arise from Vendor or Vendor's contractors, subcontractors, agents or employees' operations under this Agreement. City shall cooperate reasonably in the defense of any action, and Vendor shall employ competent counsel, reasonably acceptable to the City Attorney.

- 20. **Reliance Upon Professional Skill:** It is mutually agreed by the parties that the City is relying upon the professional skill of the Vendor, and the Vendor

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represents to the City that its work shall conform to generally recognized professional standards in the industry. Acceptance of the Vendor's work by the City does not operate as a release of the Vendor's said representation.

21. **Extending Contract Pricing:** The successful Vendor will extend bid pricing as quoted herein to other political subdivisions (i.e., cities, counties, school districts, etc.).

☐ Yes      ☐ No

If prices bid herein are offered to other political subdivisions, additional delivery charges, if any, must be negotiated between the political subdivision and the Vendor.

22. **Entire Agreement:** This Agreement contains the entire understanding between the parties with respect to the subject matter herein. There are no representations, agreements or understandings (whether oral or written) between or among the parties relating to the subject matter of this Agreement which are not fully expressed herein. If the attachments or exhibits to this Agreement, if any, are inconsistent with this Agreement, this Agreement shall control.

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23. **Signatures:** The undersigned understands and agrees that the conditions set forth in the instructions to vendors, the terms and conditions, the specifications, together with the proposal and any other documents submitted in response to the foregoing, shall form a part of and be construed with the purchase order/contract.

**VENDOR:**

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Company Name

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Street Address of Company

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Signature of Officer

---

City, State, Zip

---

Printed Name of Officer

---

Telephone No./Fax No.

---

Title of Officer

---

Federal I.D. Tax Number

AS-10^(RFP)  
(Rev. 7/12/05)

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**SECTION III: SPECIFICATIONS**

**SECTION 13160 – PREFABRICATED RELOCATEABLE STRUCTURES**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. This section includes:
  - 1. Design requirements for prefabricated, relocatable, modular, clear span buildings based on a current PC (Pre-Checked) approval set approved by the California Division of the State Architect (DSA).
  - 2. Producing drawings and specifications for the Work to be assembled with the Architect's drawings and submitted for City of Mountain View approval. This section also includes making revisions as necessary for approval.
  - 3. Construction of foundations and installation of modular units.
  - 4. Connection to site utilities.
  - 5. All costs for transportation and installation at the site are to be included in the Bid Price unless noted otherwise below.

**1.3 DEFINITIONS**

- A. PC-approved: a set of drawings and specification with a current approval by the Division of the State Architect (DSA) and a current DSA number.

**1.4 SUBMITTALS**

- A. PC-Approval: submit documentation substantiating current PC approval status of base building.

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- B. Shop Drawings: submit complete drawings stamped and signed by qualified professional engineers licensed in California, including, at a minimum:
  - 1. Title Sheet with Building Data and Codes
  - 2. General Notes and Specifications
  - 3. Floor Plans
  - 4. Exterior Elevations and Details
  - 5. Interior Elevations and Details
  - 6. Ceiling Grid Plan and Details
  - 7. Foundation Plan and Details
  - 8. Structural Plans and Details
  - 9. Mechanical Plan and Details
  - 10. Electrical Plan and Details
  - 11. Plan and Details of Ramps provided with building.
- C. Samples for Verification: For each type of exposed finish required, as indicated below:
  - 1. Carpet.
  - 2. Tackable panels.
  - 3. Vinyl composition tile.
  - 4. Acoustical ceiling panels.
- D. Door Schedule: For doors and frames. Use same designations indicated on Drawings. Include details of reinforcement.
  - 1. Door Hardware Schedule: Include details of fabrication and assembly of door hardware. Organize schedule into door hardware sets indicating complete designations of every item required for each door or opening.
  - 2. Keying Schedule: Detail Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations.
- E. Welding certificates.
- F. Maintenance Data: For all finish materials and equipment to include in maintenance manuals.
- G. Warranties: Sample of special warranties.

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1.5 QUALITY ASSURANCE

- A. Materials and Workmanship: All workers shall be skilled and qualified for the work that they perform. All materials used, unless otherwise specified, shall be new and of the types and grades specified. The Contractor shall, if requested, furnish evidence satisfactory to the Owner that such is the case.
- B. Source Limitations: Obtain metal building system components, including primary and secondary framing and metal panel assemblies, from single source from single manufacturer.
- C. Welding Qualifications: Qualify procedures and personnel according to the following:
  - 1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
  - 2. AWS D1.3, "Structural Welding Code - Sheet Steel."
- D. Structural Steel: Comply with AISC 360, "Specification for Structural Steel Buildings," for design requirements and allowable stresses.
- E. Cold-Formed Steel: Comply with AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members" for design requirements and allowable stresses.
- F. Fire-Resistance Ratings: Where indicated, provide assemblies identical to those of assemblies tested for fire resistance per ASTM E 119 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
  - 1. Indicate design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency.
- G. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C.
- H. Preinstallation Conference: Conduct conference at Project site.
  - 1. Review methods and procedures related to prefabricated relocatable structure installation, including, but not limited to, the following:

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- a. Condition of foundations and other preparatory work performed by other trades.
  - b. Structural load limitations.
  - c. Construction schedule. Verify availability of materials and erector's personnel, equipment, and facilities needed to make progress and avoid delays.
  - d. Required tests, inspections, and certifications.
  - e. Unfavorable weather and forecasted weather conditions.
- I. Coordination of the Work: It shall be the Contractor's responsibility to make all necessary arrangements with the Owner's authorized representative for access to grounds and removal and replacement of fencing, gates, or other hindrances, if necessary.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. The Contractor is responsible for attaining and paying for all permits required for delivery of modular to site.
- B. Once delivery of modules on site is made, erection shall commence immediately and be pursued in a timely manner until complete. All modules called for at that site shall be scheduled for delivery and erection in one continuous time frame (Saturdays, Sundays, and Holidays excepted). If modules are temporarily being staged overnight, they shall be set on single cribs and weather protected.
- C. The Contractor shall furnish all materials, articles and equipment in ample quantities and at such times as to assure uninterrupted progress of the work.
- D. Security of the buildings against vandalism is the sole responsibility of the Contractor until the Work has been accepted as Substantially Complete.

1.7 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when weather conditions permit metal panels to be installed according to manufacturers' written instructions and warranty requirements.

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1.8 COORDINATION

- A. Coordinate sizes and locations of site utilities with Owner's representative and sitework Contractor.
- B. Coordinate installation procedures, access requirements, and temporary controls requirements with sitework Contractor.

1.9 GUARANTEE

- A. Contractor hereby unconditionally guarantees that work will be done in accordance with requirements of the Contract and further guarantees the Work to be and to remain free of defects in workmanship and materials for a period of one year from date of acceptance by Owner, unless a longer period of guarantee is specifically called for. Contractor hereby agrees to repair or replace any and all work, together with any other adjacent work that may have been damaged or displaced in so doing, that is not in accordance with the requirements of the Contract or that may be defective in its workmanship or material within the guarantee period specified without any expense whatsoever to the Owner, ordinary wear and tear and unusual abuse or neglect excepted. Contract bonds shall remain in full force and effect during guarantee period.
- B. Contractor further agrees that within ten (10) calendar days of being notified in writing by Owner of any work not in accordance with the requirements of the Contract, or any defects in workmanship or materials, Contractor will commence and prosecute with due diligence all work necessary to fulfill the terms of this guarantee and complete the work within a reasonable period of time. In the event the Contractor fails to comply, he does hereby authorize Owner to proceed and have such work done at the Contractor's expense and the Contractor will pay the costs thereof on demand. Owner shall be entitled to all costs including reasonable attorney's fees necessarily incurred upon Contractor's refusal to pay above noted costs.

PART 2 - PRODUCTS

2.1 GENERAL DESIGN REQUIREMENTS

- A. Modular Construction:

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1. Provide 12' x 40' modules so that modules may be joined together to form a complete watertight building, and to maintain positive alignment of floors, walls and roof.
  2. The structural system of each module shall be a welded rigid steel frame with columns at the corners and no interior or intermediate columns required to resist vertical and lateral loads.
  3. Each module shall be capable of resisting all vertical and lateral loads during transportation and relocation. When modules are assembled, joints shall be sealed with removable closing strips or other method to present a finished appearance and be permanently waterproof.
  4. Each module shall be sufficiently rigid to be jacked up at the front and back corners for relocation without damage or the module shall have lift lugs at front and back located as required so that the module may be jacked up for relocation in one piece without damage. This requirement shall be met without additional supports of any type.
  5. Finish and base materials at each module, except roofing, flooring, and ceiling, shall terminate at interior module joints in a manner to join flush and tight with same material in adjacent module, so that modules may be relocated with a minimum of cutting and patching.
  6. The interior height finish floor to ceiling shall be a minimum of eight feet clear.
- B. Load Criteria: Modules shall be designed to support dead loads appropriate to construction assemblies, plus the following live loads:
1. Roof: 20 pounds per square foot.
  2. Floor: 50 pounds per square foot.
- C. Foundations: provide design and engineering of wood foundations:
1. Foundation wood shall be pressure treated impregnated with an approved process and preservative.
  2. Provide ventilation openings of sufficient area to comply with applicable codes.
  3. Foundation design shall comply with Title 24, Part 2, and all applicable DSA regulations.

## 2.2 STRUCTURAL-STEEL FRAMING

- A. Primary Framing: Manufacturer's standard primary-framing system, designed to withstand required loads and specified requirements.

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1. General: Provide frames with attachment plates, bearing plates, and splice members. Factory drill for field-bolted assembly. Provide frame span and spacing indicated.
  2. Rigid Clear-Span Frames: Tube-shaped frame sections fabricated from shop-welded structural-steel shapes. Interior columns are not permitted.
  3. Frame Configuration: One-directional sloped.
  4. Joists and Blockings: Steel Joists and blockings.
  5. Floor Framing:
    - a. Joists: min. 14 gauge.
    - b. Blocking: min. 12 gauges.
- B. Secondary Framing: Manufacturer's standard secondary framing, including purlins, girts, eave struts, flange bracing, base members, gable angles, clips, headers, jambs, and other miscellaneous structural members. Unless otherwise indicated, fabricate framing from either cold-formed, structural-steel sheet or roll-formed, metallic-coated steel sheet, prepainted with coil coating, to comply with the following:
- C. Bolts: Provide plain-finish bolts for structural-framing components that are primed or finish painted. Provide zinc-plated or hot-dip galvanized bolts for structural-framing components that are galvanized.
- D. Materials:
1. W-Shapes: ASTM A 992/A 992M; ASTM A 572/A 572M, Grade 50 or 55(345 or 380); or ASTM A 529/A 529M, Grade 50 or 55(345 or 380).
  2. Channels, Angles, M-Shapes, and S-Shapes: ASTM A 36/A 36M; ASTM A 572/A 572M, Grade 50 or 55(345 or 380); or ASTM A 529/A 529M, Grade 50 or 55(345 or 380).
  3. Plate and Bar: ASTM A 36/A 36M; ASTM A 572/A 572M, Grade 50 or 55(345 or 380); or ASTM A 529/A 529M, Grade 50 or 55(345 or 380).
  4. Steel Pipe: ASTM A 53/A 53M, Type E or S, Grade B.
  5. Cold-Formed Hollow Structural Sections: ASTM A 500, Grade B or C, structural tubing.
  6. Structural-Steel Sheet: Hot-rolled, ASTM A 1011/A 1011M, Structural Steel (SS), Grades 30 through 55(205 through 380), or High-Strength Low-Alloy Steel (HSLAS), Grades 45 through 70(310 through 480); or cold-rolled, ASTM A 1008/A 1008M, Structural Steel (SS), Grades 25 through 80(170 through 550), or High-Strength Low-Alloy Steel (HSLAS), Grades 45 through 70(310 through 480).

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7. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Structural Steel (SS), Grades 33 through 80(230 through 550), or High-Strength Low-Alloy Steel (HSLAS), Grades 50 through 80(340 through 550); with G60(Z180) coating designation; mill phosphatized.
- E. Finish: Factory primed. Apply specified primer immediately after cleaning and pretreating.
1. Apply primer to primary and secondary framing to a minimum dry film thickness of 1 mil(0.025 mm).
    - a. Prime secondary framing formed from uncoated steel sheet to a minimum dry film thickness of 0.5 mil(0.013 mm) on each side.
  2. Prime galvanized members with specified primer after phosphoric acid pretreatment.
  3. Primer: SSPC-Paint 15, Type I, red oxide.

## 2.3 WOOD FRAMING

- A. Framing of Roofs, Exterior and Interior Walls and Floors:
1. All framing lumber shall be marked MC-15 or surfaced dry (S-dry).
  2. Exterior and Interior Wall Framing: Douglas Fir/Larch No.2 or better, max, 19% moisture content.
    - a. Studs: Minimum 2 x 4 at 16 inches on center. Plumbing shall be as above except 2 x 6 at 16 inches on center.
    - b. Sill (Sole Plate): Minimum 2 x 4.
    - c. Top Plates: Minimum 2 x 4. Double with min. 4 foot long splice.
    - d. Headers: Minimum two 2 x 4's on edge with 1/2" thick APA rated plywood, Exposure 1 filler.
    - e. Door and Window Openings: Double stud/cripples.
    - f. Blocking: Minimum 2 x 4.
  3. Floor Subfloor: APA Rated STURD-I-FLOOR, 48 inches on center, staggered, 1-1/8" thick, tongue and groove edges, Exposure 1, with exterior glue.
  4. Siding: APA CDX Grade Exterior Type, T-111 Pattern. Each panel shall be identified with the grade-trademark of the American Plywood Association and shall meet the requirements of the Product Standard PSI-74. Panel

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thickness to be 5/8" minimum. Seal all edges with a heavy coat of high-grade exterior house primer or an aluminum primer formulated for wood before installation.

5. Roofing Sheathing: Minimum 5/8 inch thick tongue and groove plywood APA CDX Grade Exterior type.

- B. Any wood in direct contact with the grade shall be pressure treated impregnated with an approved process and preservative. Shims may be redwood or cedar.

## 2.4 METAL ROOF PANELS

- A. Vertical-Rib, Standing-Seam Metal Roof Panels: Formed with vertical ribs at panel edges and flat pan between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels and engaging opposite edge of adjacent panels.

1. Material: Zinc-coated (galvanized) steel sheet, 0.034-inch(0.86-mm) nominal thickness.
  - a. Exterior Finish: Fluoropolymer.
  - b. Color: As selected by Architect from manufacturer's full range.
2. Clips: Manufacturer's standard, fixed type; fabricated from zinc-coated (galvanized) steel sheet.
3. Joint Type: Panels snapped together.
4. Panel Coverage: 16 inches(406 mm).
5. Panel Height: 2 inches(51 mm).
6. Uplift Rating: UL 90.

- B. Materials:

1. Metallic-Coated Steel Sheet: Restricted-flatness steel sheet, metallic coated by the hot-dip process and prepainted by the coil-coating process to comply with ASTM A 755/A 755M.
  - a. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, G90(Z275) coating designation; structural quality.
  - b. Surface: Smooth, flat finish.

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C. Finishes:

1. Exposed Coil-Coated Finish:

- a. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish, consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil(0.013 mm).

D. Roof Panel Accessories: Provide components required for a complete metal roof panel assembly including copings, fasciae, corner units, ridge closures, clips, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal roof panels unless otherwise indicated.

1. Closures: Provide closures at eaves and ridges, fabricated of same material as metal roof panels.
2. Clips: Manufacturer's standard, formed from steel sheet, designed to withstand negative-load requirements.
3. Cleats: Manufacturer's standard, mechanically seamed cleats formed from steel sheet.
4. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
5. Closure Strips: Closed-cell, expanded, cellular, rubber or cross linked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch-(25-mm-) thick, flexible closure strips; cut or premolded to match metal roof panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.

2.5 FLASHING AND TRIM

- A. Flashing and Trim: Formed from 0.022-inch(0.56-mm) nominal-thickness, metallic-coated steel sheet or aluminum-zinc alloy-coated steel sheet prepainted with coil coating; finished to match adjacent metal panels.

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1. Provide flashing and trim as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers.
  2. Opening Trim: Formed from 0.022-inch(0.56-mm) nominal-thickness, metallic-coated steel sheet or aluminum-zinc alloy-coated steel sheet prepainted with coil coating. Trim head and jamb of door openings, and head, jamb, and sill of other openings.
- B. Gutters: Formed from 0.022-inch(0.56-mm) nominal-thickness, metallic-coated steel sheet or aluminum-zinc alloy-coated steel sheet prepainted with coil coating; finished to match roof fascia and rake trim. Match profile of gable trim, complete with end pieces, outlet tubes, and other special pieces as required. Fabricate in minimum 96-inch-(2438-mm-) long sections, sized according to SMACNA's "Architectural Sheet Metal Manual."
1. Gutter Supports: Fabricated from same material and finish as gutters.
  2. Strainers: Bronze, copper, or aluminum wire ball type at outlets.
- C. Downspouts: Formed from 0.022-inch(0.56-mm) nominal-thickness, zinc-coated (galvanized) steel sheet or aluminum-zinc alloy-coated steel sheet prepainted with coil coating; finished to match metal wall panels. Fabricate in minimum 10-foot-(3-m-) long sections, complete with formed elbows and offsets.
1. Mounting Straps: Fabricated from same material and finish as gutters.
- D. Pipe Flashing: Premolded, EPDM pipe collar with flexible aluminum ring bonded to base.

## 2.6 THERMAL INSULATION

- A. Unfaced, Glass-Fiber Blanket Insulation: ASTM C 665, Type I; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.
- B. Kraft-Faced, Glass-Fiber Blanket Insulation: ASTM C 665, Type II (non-reflective faced), Class C (faced surface not rated for flame propagation); Category 1 (membrane is a vapor barrier).
- C. Insulation Schedule:
  1. Roof Insulation: R-19 Unfaced.

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2. Walls Insulation: R-11 Kraft-Faced.
3. Floor Insulation: R-11 Kraft-Faced.

2.7 DOORS AND FRAMES

- A. Swinging Personnel Doors and Frames: building system manufacturer's standard doors and frames; prepared and reinforced at strike and at hinges to receive factory- and field-applied hardware according to BHMA A156 Series.
1. Exterior Steel Doors: 1-3/4 inches(44 mm) thick; fabricated from 0.040-inch(1.02-mm) nominal-thickness, metallic-coated steel face sheets; of seamed, hollow-metal construction; with 0.064-inch(1.63-mm) nominal-thickness, inverted metallic-coated steel channels welded to face sheets at top and bottom of door.
    - a. Design: Flush panel.
    - b. Grade: Grade II per ANSI/SDI-100.
  2. Interior Wood Doors: Solid core wood doors with paint grade MDF faces.
  3. Steel Frames: Fabricate 2-inch-(51-mm-) wide face frames from 0.064-inch(1.63-mm) nominal-thickness, metallic-coated steel sheet per ANSI/SDI-100.
    - a. Type: Knocked down for field assembly or factory welded.
    - b. Anchors: Provide minimum three anchors at each jamb and adjustable floor anchor at bottom of each jamb.
  4. Fabricate concealed stiffeners, reinforcement, edge channels, and moldings from either cold- or hot-rolled steel sheet.
  5. Hardware:
    - a. Provide hardware for each door leaf, as follows:
      - 1) Hinges: BHMA A156.1. Three plain-bearing, standard-weight, full-mortise, stainless-steel or bronze, template-type hinges; 4-1/2 by 4-1/2 inches(114 by 114 mm), with nonremovable pin.
      - 2) Lockset: BHMA A156.2. Key-in-lever cylindrical type.
      - 3) Exit Device: BHMA A156.3. Touch- or push-bar type.
      - 4) Threshold: BHMA A156.21. Extruded aluminum.

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- 5) Silencers: Pneumatic rubber; three silencers on strike jambs of single door frames and two silencers on heads of double door frames.
  - 6) Closer: BHMA A156.4. Surface-applied, standard-duty hydraulic type.
  - 7) Weather Stripping: Vinyl applied to head and jambs, with vinyl sweep at sill.
- b. Provide each pair of double doors with the following hardware in addition to that specified for each leaf:
- 1) Astragal: Removable type.
  - 2) Surface Bolts: Top and bottom of inactive door.
- c. Mountings heights:
- 1) Locksets: 40-5/16 inches from floor to centerline of level handle, hand operated opener or exit hardware, unless otherwise noted.
  - 2) Butts: 5 inches from head of opening to top of butt; 10 inches from finish floor to bottom of bottom butt; intermediate butt spaced equidistant between top and bottom butts.
6. Anchors and Accessories: Manufacturer's standard units, galvanized according to ASTM A 123/A 123M.
7. Fabrication: Fabricate doors and frames to be rigid; neat in appearance; and free from defects, warp, or buckle. Provide continuous welds on exposed joints; grind, dress, and make welds smooth, flush, and invisible.
- B. Materials:
1. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications.
  2. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
  3. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with G60(Z180) zinc (galvanized) or A60(ZF180) zinc-iron-alloy (galvannealed) coating designation.
- C. Finishes for Personnel Doors and Frames:

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1. Prime Finish: Factory-apply manufacturer's standard primer immediately after cleaning and pretreating.
  - a. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.

Hardware Schedule

**Exterior Exit Door**

No.	Item	Description	Manufacturer	Finish
1 EA	CFM	HINGE	PEM	---
1 EA	IE7252RP	EXIT DEVICE	BEST	626
1 EA	FL2100xV4900A	CYLINDER	BEST	626
1 EA	4041	CLOSER	LCN	689
1 EA	1263	STOP/HOLDER	TBM	626
1 EA	5002	LATCH GUARD	TBM	626
1 EA	4301	SWEEP	PEM	---
1EA	2748A	THRESHOLD	PEM	689

2.8 WINDOWS

- A. Aluminum Windows: Metal building system manufacturer's standard, with self-flashing mounting fins, and as follows:
  1. Type, Performance Class, and Performance Grade: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 and as follows:
    - a. Horizontal-Sliding Units: HS-LC25.
    - b. Single-Hung Units: H-LC25.
    - c. Fixed Units: F-LC25.
  2. Aluminum Extrusions: ASTM B 221(ASTM B 221M), alloy and temper recommended by manufacturer for strength, corrosion resistance, and application of required finish, but not less than 0.064-inch(1.63-mm) thickness at any location for main frame and sash members.
  3. Mullions: Between adjacent windows, fabricated of extruded aluminum matching finish of window units.

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4. Fasteners, Anchors, and Clips: Nonmagnetic stainless steel, aluminum, or other noncorrosive material, compatible with aluminum window members, trim, hardware, anchors, and other components of window units. Fasteners shall not be exposed, except for attaching hardware.
    - a. Reinforcement: Where fasteners screw-anchor into aluminum less than 0.128 inch(3.26 mm) thick, reinforce interior with aluminum or nonmagnetic stainless steel to receive screw threads, or provide standard, noncorrosive, pressed-in, spline grommet nuts.
  5. Hardware: Manufacturer's standard; of aluminum, stainless steel, die-cast steel, malleable iron, or bronze; including the following:
    - a. Cam-action sweep sash lock and keeper at meeting rails.
    - b. Spring-loaded, snap-type lock at jambs.
    - c. Pole-operated, cam-action locking device on meeting rail where rail is more than 72 inches(1830 mm) above floor.
    - d. Lift handles for single-hung units.
    - e. Nylon sash rollers for horizontal-sliding units.
    - f. Steel or bronze operating arms.
  6. Sliding-Type Weather Stripping: Woven-pile weather stripping of wool, polypropylene, or nylon pile and resin-impregnated backing fabric; complying with AAMA 701/702.
  7. Insect Screens: Provide removable insect screen on each operable exterior sash, with screen frame finished to match window unit, and as follows:
    - a. Aluminum Wire Fabric: 18-by-18(1.1-by-1.1-mm), 18-by-16(1.1-by-1.3-mm), or 18-by-14(1.1-by-1.5-mm) mesh of 0.013-inch-(0.3-mm-) diameter, coated aluminum wire; complying with FS RR-W-365, Type VII.
- B. Glazing:
1. Tinted Float Glass: ASTM C 1036, Type I, Quality-Q3, Class 2, 7/32" thick fully tempered (FT) glass of solar gray, glare reducing type with a light transmission factor ranging between 12% and 16%. Header height shall be the same as the door.
- C. Finish:
1. Anodized: Clear.

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2.9 PAINTING

- A. General: All exposed surfaces shall be painted except aluminum window frames and thresholds.
- B. Manufacturer: Basis-of-Design Products: Provide following products by Dunn-Edwards or an equal product by one of the following manufacturers:

1. Benjamin Moore
2. Kelly-Moore
3. Sherwin-Williams
4. ICI Dulux
5. Or Equal

- C. Schedule – Exterior Surfaces:

Wood: Semi-Gloss – Acrylic

1 Coat Kelly-Moore 255 Acry-Shield Wood Primer

2 Coats Kelly-Moore 1250 Acry-Shield Exterior Semi Gloss Enamel

Concrete: Semi-Gloss – Acrylic

1 Coat Kelly-Moore 247 Acry-Shield Masonry Primer

2 Coats Kelly Moore 1250 Acry-Shield Exterior Semi-Gloss Enamel

Ferrous: Semi-Gloss – Acrylic

1 Coat Kelly-Moore 1711 Kel-Guard Alkyd Rust Prevention Primer

2 Coats Kelly Moore 1250 Acry-Shield Exterior Semi-Gloss Enamel

Ferrous (Factory Primed): Touch up primer coat in lieu of full primer coat. Finish coats as specified above.

Galvanized and Aluminum: Semi-Gloss – Acrylic

1 Coat Kelly Moore 1725 Acry-Shield Metal Primer

2 Coats Kelly Moore 1250 Acry-Shield Exterior Semi-Gloss Enamel

- D. Schedule – Interior Surfaces

Wood: Semi-Gloss – Acrylic

1 Coat Kelly-Moore 975 Acry-Plex Interior latex enamel

2 Coats Kelly-Moore 1650 Acry-Plex Interior Semi-gloss enamel

Concrete: Semi-Gloss – Acrylic

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- 1 Coat Kelly-Moore 95-500 Vapor-Shield – Wall board and Masonry  
Primer/Sealer
- 2 Coats Kelly-Moore 1650 Acry-Plex Interior Semi-gloss enamel

Gypsum Board: Semi-Gloss - Acrylic

- 1 Coat Kelly-Moore 972 Acry-Plex Interior High Hide PVA Primer/Sealer
  - 2 Coats Kelly-Moore 1650 Acry-Plex Interior Semi-gloss enamel
- Note: Provide 1 Finish Coat at Storage and Mechanical Rooms

Ferrous: Semi-Gloss – Acrylic

- 1 Coat Kelly-Moore 1725 Acry-Shield Acrylic Metal Primer
- 2 Coats Kelly-Moore 1650 Acry-Plex Interior Semi-gloss enamel

Ferrous (Factory Primed): Touch up primer coat in lieu of full primer coat.  
Finish coats as specified above.

Galvanized and Aluminum: Semi-Gloss – Alkyd

- 1 Coat Kelly-Moore 1725 Acry-Shield Acrylic Metal Primer
- 2 Coats Kelly-Moore 1625 Alkyd Semi-gloss enamel

## 2.10 FLOOR COVERINGS

### A. Vinyl Composition Tile (VCT)

1. Manufacturers:
  - a. Armstrong World Industries, Inc.
  - b. Congoleum Corporation
  - c. Mannington Mills, Inc
  - d. Tarkett, Inc.
  - e. Or equal.
2. Tile Standard: ASTM F 1066, Class 1, solid-color tile.
3. Wearing Surface: Smooth.
4. Thickness: 0.125 inch (3.2 mm).
5. Size: 12 by 12 inches (305 by 305 mm).
6. Colors and Patterns: As selected by Architect from full range of industry colors.

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2.11 INTERIOR WALLS

- A. Interior Walls at all rooms except Toilet Rooms: All interior walls shall be vinyl covered tack board applied in one continuous length from floor to ceiling. Tackboard backing shall be minimum 1/2 inch sheetrock or minimum 3/8 inch plywood. Tackboard shall be industrial insulation board specifically manufactured as a substrate for vinyl wall covering and be asphalt free and have a minimum density of 18 pounds per square foot. The vinyl coating shall weigh a minimum of 8 ounces per square yard. The vinyl wall covering shall have a Class I flame spread rating and the fabricated panel shall have a Class II rating. The panel shall be approved by the California State Fire Marshal for use in classrooms. Care shall be taken in mounting the tackboard so that the texture of all panels will have the same orientation and color match.

1. Manufacturers:

- a. ABC School Equipment
- b. ADP Lemco Inc.
- c. Or equal.

- B. Resilient Wall Base: Provide resilient wall base at all interior rooms.

- a. Type (Material Requirement): TV (vinyl).
- b. Group (Manufacturing Method): I (solid, homogeneous) or II (layered).
- c. Style: Cove (with top-set toe).
- d. Minimum Thickness: 0.125 inch.
- e. Height: 6 inches.
- f. Lengths: Coils in manufacturer's standard length.
- g. Outside Corners: Job formed.
- h. Inside Corners: Job formed.
- i. Surface: Smooth.

2.12 ACOUSTICAL CEILINGS

- A. Support Grids: Acoustical ceiling grids shall have a minimum classification of Heavy Duty per ASTM C635.
- B. Acoustic Panels: Basis-of-Design Product: Provide Armstrong Cortega Second Look No. 2767 or equal product conforming to the following requirements:

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1. 3/4 inch minimum thickness
2. Square edge
3. ASTM flame spread Class I
4. 24 inch by 48 inch modular size
5. Light reflection 75% minimum
6. Noise reduction coefficient of 0.65 minimum

2.13 SPECIALTIES

A. Markerboards

1. Manufacturers:
  - a. Polyvision Corp
  - b. ABC School Equipment, Inc.
  - c. Claridge Products and Equipment
  - d. Marsh Industries
  - e. Or equal.
2. Construction: Porcelain steel with anodized aluminum frame and integral bottom chalk tray.
3. Size: 4 feet by 8 feet.
4. Accessories:
  - a. Full length map rail with cork insert
  - b. Two map hooks with clips.
  - c. Two roller brackets.
  - d. Flag holder, 1/2" staff size.
5. Mounting Height: 30 inches to bottom of board

B. Glass Mirrors, General: ASTM C 1503.

1. Tempered Clear Glass: Mirror Glazing Quality, for blemish requirements; and comply with ASTM C 1048 for Kind FT, Condition A, tempered float glass before silver coating is applied.
  - a. Nominal Thickness: 1/4 inch..
2. Mirror Hardware: Top and Bottom Aluminum J-Channels: Aluminum extrusions with a return deep enough to produce a glazing channel to

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accommodate mirrors of thickness indicated and in lengths required to cover bottom and top edges of each mirror in a single piece.

C. Blinds: Provide blinds at all exterior windows.

1. Basis-of-Design Product: provide Riviera Contract Dustguard 1" Blind Unperforated Pinlight Magic or an equal product complying with the following requirements:
  - a. Louver slats: minimum 0.006 inch thick spring tempered pre-finished aluminum horizontal slats with manufacturing burrs removed, radiused slat corners.
  - b. Slat Support: Woven polypropylene, ladder configuration.
  - c. Head Rail Housing: prefinished formed steel box, internally fitted with hardware, pulleys and bearings for blind operation.
  - d. Tilt Wand: Extruded hollow plastic shape, non-removable tape, length of window opening height less 12 inches.
  - e. Brackets and Accessory Hardware: type recommended by blind manufacturers.

D. Fire Extinguishers: Provide each room with a multipurpose dry-chemical type extinguisher in a Steel Container: UL-rated 2-A:10-B:C, 5-lb nominal capacity, with monoammonium phosphate-based dry chemical in enameled-steel container.

2.14 HEATING, VENTILATING AND AIR CONDITIONING

- A. Heat Pump: Single package wall mounted air to air electric heat pump unit rated in accordance with ARI Standard 240-77. Units shall be 230/208 volt, 1 phase system, UL tested and approved and meet current energy standards.
1. The system shall be sized to maintain an automatically controlled indoor temperature of 78 degrees F when the outdoor dry bulb temperature is 100 degrees F.
  2. The system shall maintain the above temperature when the damper is adjusted to use approximately 1/3 fresh air.
  3. Controls: provide electronic programmable thermostat with the following functions:
    - a. 5 and 2 weekday/weekend programming with 4 separate time/temperature settings for a 24 hour period.

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- b. Keyboard lockout switch.
  - c. Programmable Display.
  - d. 2-hour minimum override.
  - e. Status indicator LED's.
  - f. Battery back-up.
  - g. Provide locking clear thermostat cover with access hole for program override.
- B. Ductwork: Construct all ductwork of galvanized sheet metal in accordance with CMC ASHRAE Guide Equipment volume and SMACNA Low Velocity Duct Construction Manual latest editions. All ductwork shall be insulated with 1 inch thick fiberglass duct wrap with vapor barrier. Provide 1" duct attenuation at all ductwork within 2'-0" of HVAC unit.
  - 1. Non-metallic ductwork option: In accessible concealed portions of duct system rigid 1" fiberglass or insulated flex-duct with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 2'-0" of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure.
  - 2. Air duct insulations and linings shall comply with flame spread less than or equal to 25, smoke generation less than or equal to 50.
- C. Air Diffusers: supply air diffusers shall be 675 CFM maximum, 12" round 1" fiberglass or flexduct specifically designed to provide air thermal systems. UL #131 test class 1 rating with SMACNA.
- D. Registers and Diffusers: Provide minimum three 4 way throw air diffusers with commercial grade grilles and registers.

2.15 LIGHTING

- A. Provide a fluorescent lighting system that complies with the following:
  - 1. Incorporate energy efficient ballast and F32T8 735 lamp tubes.
  - 2. Overall illumination at desk level (30 inches above floor) to be an average of 50 foot-candles.
  - 3. The maximum brightness of lighting sources at time of installation shall not exceed 500 foot-lamberts.
  - 4. Exterior lighting shall be provided at required exits per code and at each exterior door, 13-watt fluorescent fixture with polycarbonate cover.

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5. Provide occupancy sensors in each area for automatic shut off control per Title 24 requirements.
6. Light switches shall be Hubbell Premium Grade or Bryant Heavy Duty Grade or equal.

2.16 ELECTRICAL

- A. Provide four 12 inch by 12 inch by 4 inch deep weatherproof pull boxes with hinged and lockable door at the back of the modular unit for tele/data, EMS/security, PA/Clock, and Fire Alarm Systems. Provide terminal strips in FA, PA/Clock and EMS/Security boxes for cable termination.
- B. Provide power outlets as shown on Drawings. Provide one 20 amp circuit for every four duplex outlets, unless otherwise noted. Provide dedicated circuits where noted on Drawings. Provide power for all associated HVAC and mechanical equipment as required.
- C. Provide telephone/data back boxes at locations shown on Drawings with one 3/4 inch conduit stubbed up to the accessible ceiling space and a pull string. Provide conduit sleeves above ceiling between modular sections for cabling.
- D. Provide surface mounted clock/speaker unit at 7'-0" above finished floor with back box and cabling to weatherproof pull box on back of unit.
- E. Provide back boxes for fire alarm devices at locations shown on Drawings with one 3/4 inch conduit stubbed up to the accessible ceiling space and a pull string. Provide conduit sleeves above ceiling between modular sections for cabling.
- F. Provide back boxes for security and EMS devices at locations shown on Drawings with one 3/4 inch conduit stubbed up to the accessible ceiling space and a pull string. Provide conduit sleeves above ceiling between modular sections for cabling.

2.17 BUILDING IDENTIFICATION TAG

- A. Provide metal tag on all buildings mechanically attached to the front exterior of the building with embossed DSA approval number and building serial number.

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PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition.
- B. Provide temporary shores, guys, braces, and other supports during erection to keep structural framing secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural framing, connections, and bracing are in place unless otherwise indicated.

3.3 INSTALLATION

- A. Installation shall be strictly per the DSA-approved documents.
- B. Coordinate with sitework Contractor for connection of utilities and interior finish work.

3.4 ADJUSTING

- A. Doors: After completing installation, test and adjust doors to operate easily, free of warp, twist, or distortion.
- B. Door Hardware: Adjust and check each operating item of door hardware and each door to ensure proper operation and function of every unit. Replace units that cannot be adjusted to operate as intended.
- C. Windows: Adjust operating sashes and ventilators, screens, hardware, and accessories for a tight fit at contact points and at weather stripping to ensure

REQUEST FOR PROPOSALS FOR NO. R091334 -1 FABRICATION AND DELIVERY  
OF ONE (1) MODULAR BUILDING.

smooth operation and weathertight closure. Lubricate hardware and moving parts.

3.5 CLEANING AND PROTECTION

- A. Repair damaged galvanized coatings on galvanized items with galvanized repair paint according to ASTM A780 and manufacturer's written instructions.
- B. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.
- C. Touchup Painting: After erection, promptly clean, prepare, and prime or reprime field connections, rust spots, and abraded surfaces of prime-painted structural framing, bearing plates, and accessories.
  - 1. Clean and prepare surfaces by SSPC-SP 2, "Hand Tool Cleaning," or by SSPC-SP 3, "Power Tool Cleaning."
  - 2. Apply a compatible primer of same type as shop primer used on adjacent surfaces.
- D. Doors and Frames: Immediately after installation, sand rusted or damaged areas of prime coat until smooth and apply touchup of compatible air-drying primer.
  - 1. Immediately before final inspection, remove protective wrappings from doors and frames.
- E. Windows: Clean metal surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances. Clean factory-glazed glass immediately after installing windows.

**END OF SECTION 13125**

ATTACHMENTS:

RFP-01	Site Plan
RFP-02	Floor Plan
RFP-03	Elevation
RFP-04	Vent Well Detail
RFP-05	Flashing Detail

Specification Section 13160 Prefabricated Relocatable Structures

REQUEST FOR PROPOSALS FOR NO. R091334 -1 FABRICATION AND DELIVERY OF ONE (1) MODULAR BUILDING.

**SECTION IV. BID SCHEDULE**

These quantities are listed for information purposes only and shall not be deemed to either guarantee a minimum amount or restrict the maximum amount to be delivered throughout the contract period. Nor shall any variations from the estimated quantities, regardless of extent, entitle the bidder to an adjustment in the unit price or to any other compensation.

Please provide an itemized proposal for the fabrication and delivery of **one (1)** modular building, per attached floor plan, details and as described below. Proposal should be comprehensive and include delivery and setting costs. No crane will be required for installation.

**Bid Schedule:**

<u>Item No.</u>	<u>Est. Qty.</u>	<u>U/M</u>	<u>Description</u>	<u>Unit Cost</u>	<u>Extended Cost</u>
1	1	EA	12'x40' rigid steel frame building with single slope type roof with gutter and down spouts at the back of building.		\$
2	1	EA	Exterior to be T-111 Plywood Siding.		\$
3	1	EA	Wood foundations flush with vent screening per RFP-04 attached. Wood foundations to be flush with perimeter walls. Foundation flashing behind building paper per detail 2/RFP-05 no caulking at base of wall.		\$
5	1	EA	Skirting around the building see RFP-04.		\$
6	1	EA	Provide stairs as shown on attached floor plan.		\$
7	1	EA	Exterior junction boxes with conduits stubbed above T-bar ceiling see plans.		\$

REQUEST FOR PROPOSALS FOR NO. R091334 -1 FABRICATION AND DELIVERY  
OF ONE (1) MODULAR BUILDING.

8	2	EA	Duplex phone/data jack with conduits stubbed up to the ceiling as shown on plans.	\$	\$
9	9	EA	Electrical duplex outlets at locations shown on the plan.	\$	\$
10	1	EA	CATV outlet with conduit stubbed up to the ceiling as shown on plans.		\$
11	7	EA	T-5 fluorescent light fixtures with dual level control.	\$	\$
12	1	EA	Exterior porch light.		\$
13	2	EA	Full length mirror along 1 wall, see floor plan.	\$	\$
14	1	EA	VCT Flooring.		\$
15	1	EA	Top set base.		\$
16	1	EA	Interior HVAC unit		\$
17	2	EA	8040 windows with greylite energy tint as shown on attached plan.	\$	\$
18	1	EA	4040 window with greylite energy tint as shown on attached plan.		\$
19	1	EA	3070 doors with panic hardware and best lock per hardware specification attached.		\$
20	1	EA	Provide conduit and junction boxes for paging & phone/data. The wiring and installation of required devices are by others.		\$

TOTAL (ITEMS 1-20) : \$ \_\_\_\_\_

9.25% SALES TAX: \$ \_\_\_\_\_

BID TOTAL: \$ \_\_\_\_\_

REQUEST FOR PROPOSALS FOR NO. R091334 -1 FABRICATION AND DELIVERY  
OF ONE (1) MODULAR BUILDING.

**SECTION V: PROPOSER'S REFERENCES**

The Proposer is **required** to provide a minimum of 5 references where work of a similar size and nature was performed within the 5 years. This will enable the City of Mountain View to judge the responsibility, experience, skill, and business standing of the Proposer.

**REFERENCES**

Client Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
\_\_\_\_\_ Fax Number: \_\_\_\_\_  
Date of Project (when was work performed) \_\_\_\_\_ Email address: \_\_\_\_\_

Describe what product or service was provided:

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Client Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
\_\_\_\_\_ Fax Number: \_\_\_\_\_  
Date of Project (when was work performed) \_\_\_\_\_ Email address: \_\_\_\_\_

Describe what product or service was provided:

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Client Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
\_\_\_\_\_ Fax Number: \_\_\_\_\_  
Date of Project (when was work performed) \_\_\_\_\_ Email address: \_\_\_\_\_

Describe what product or service was provided:

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REQUEST FOR PROPOSALS FOR NO. R091334 -1 FABRICATION AND DELIVERY  
OF ONE (1) MODULAR BUILDING.

Client Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
\_\_\_\_\_ Fax Number: \_\_\_\_\_  
Date of Project (when was work performed) \_\_\_\_\_ Email address: \_\_\_\_\_  
Describe what product or service was provided:

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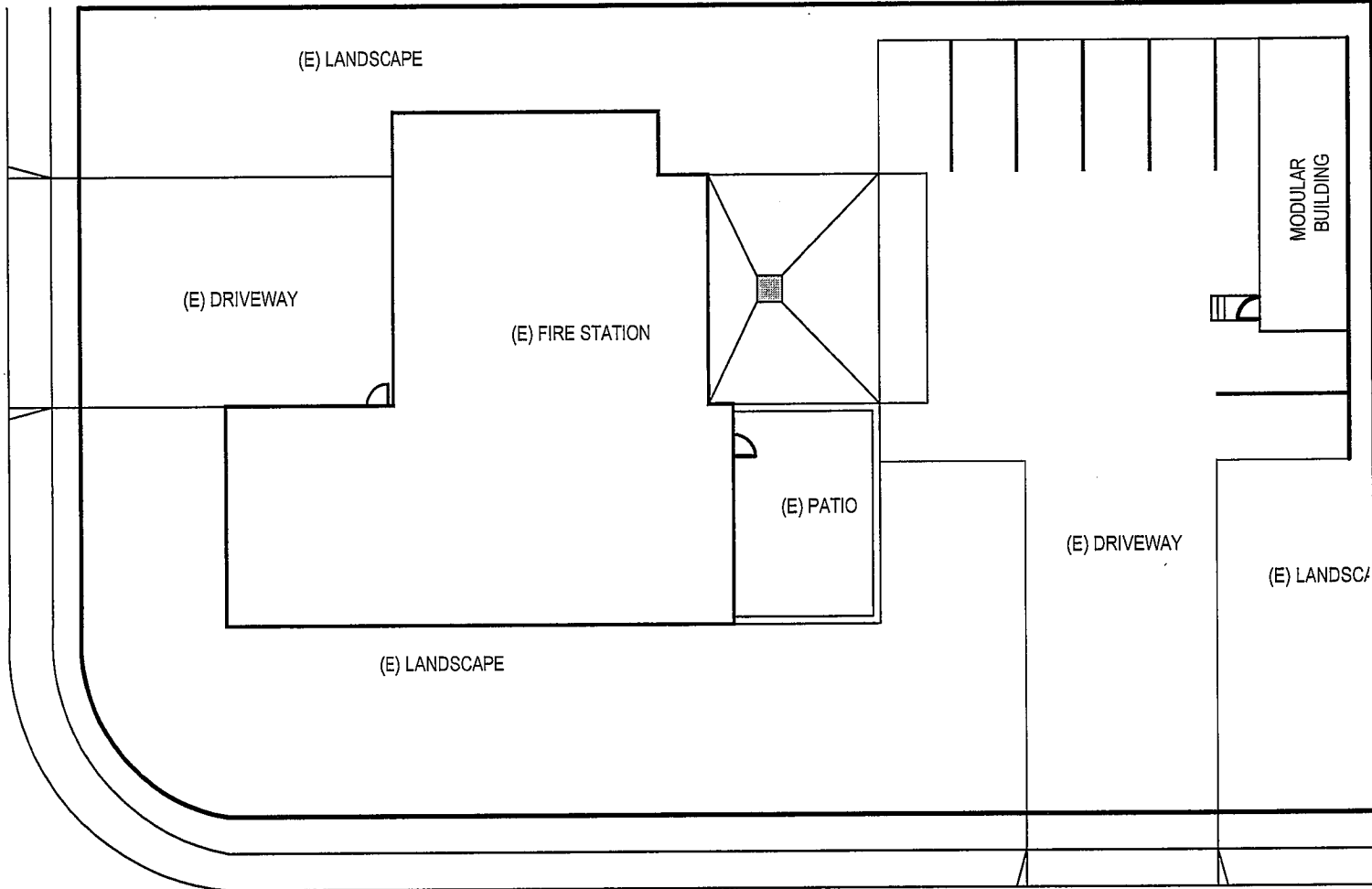
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Client Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
\_\_\_\_\_ Fax Number: \_\_\_\_\_  
Date of Project (when was work performed) \_\_\_\_\_ Email address: \_\_\_\_\_  
Describe what product or service was provided:

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**BILL GOULD DESIGN**  
ART & ARCHITECTURE

•  
394-A Umbarger Rd.  
San Jose, CA 95111  
Fax 408.224.9891  
Phone 408.224.9891

**SITE PLAN**

**FIRE STATION #3 GYM**

**CITY OF MOUNTAIN VIEW**

SCALE

NO SCALE

PROJECT NO.

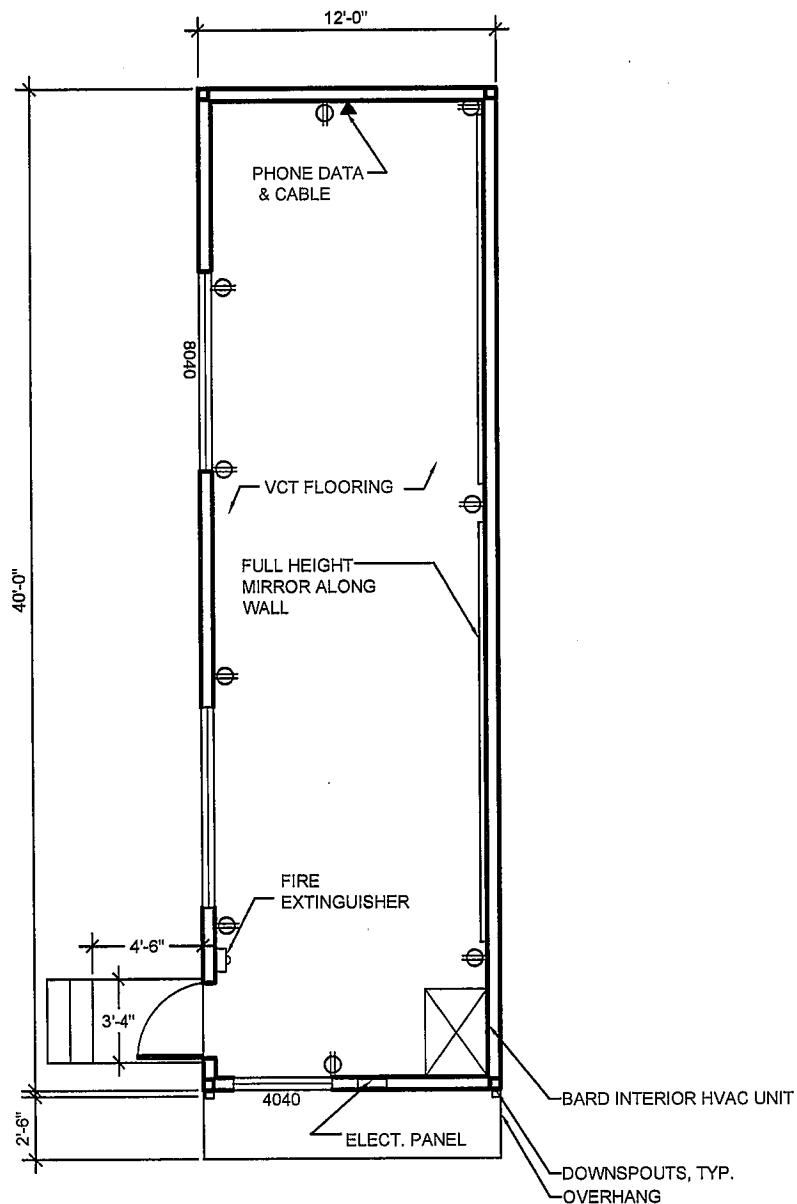
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DATE

11.04.08

SHEET NO.

**RFP-01**



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Phone 408.224.9890

FLOOR PLAN

FIRE STATION #3 GYM

CITY OF MOUNTAIN VIEW

SCALE

1/8" = 1'-0"

PROJECT NO.

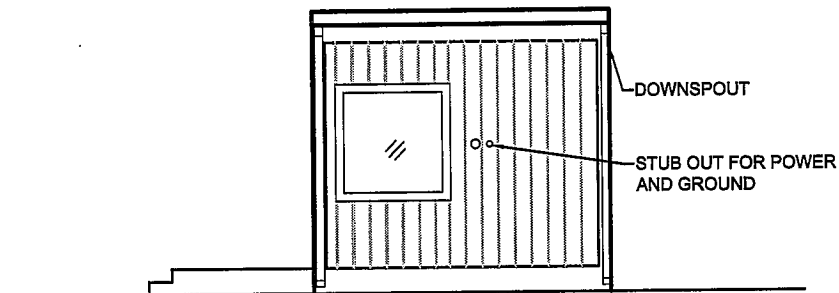
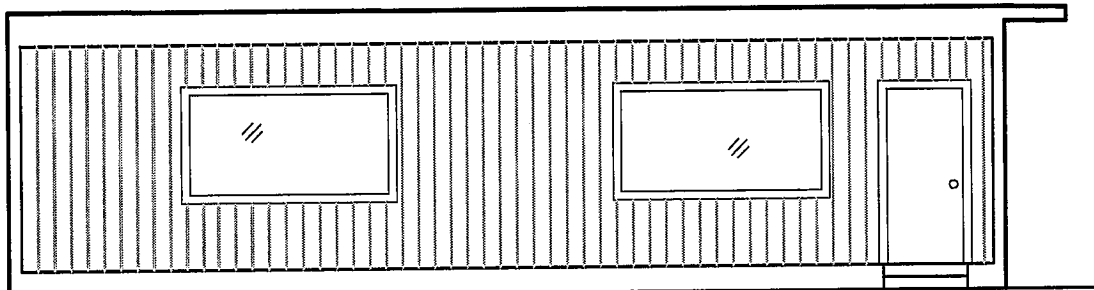
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DATE

11.04.08

SHEET NO.

RFP-02



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## ELEVATIONS

## FIRE STATION #3 GYM

CITY OF MOUNTAIN VIEW

SCALE

1/8" = 1'-0"

PROJECT NO.

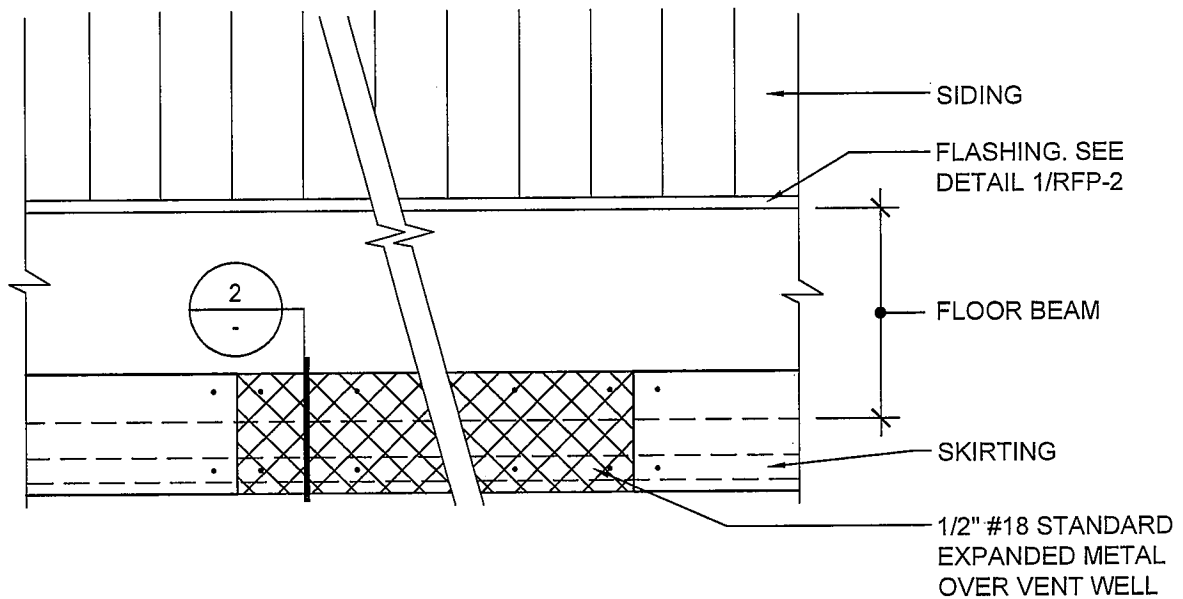
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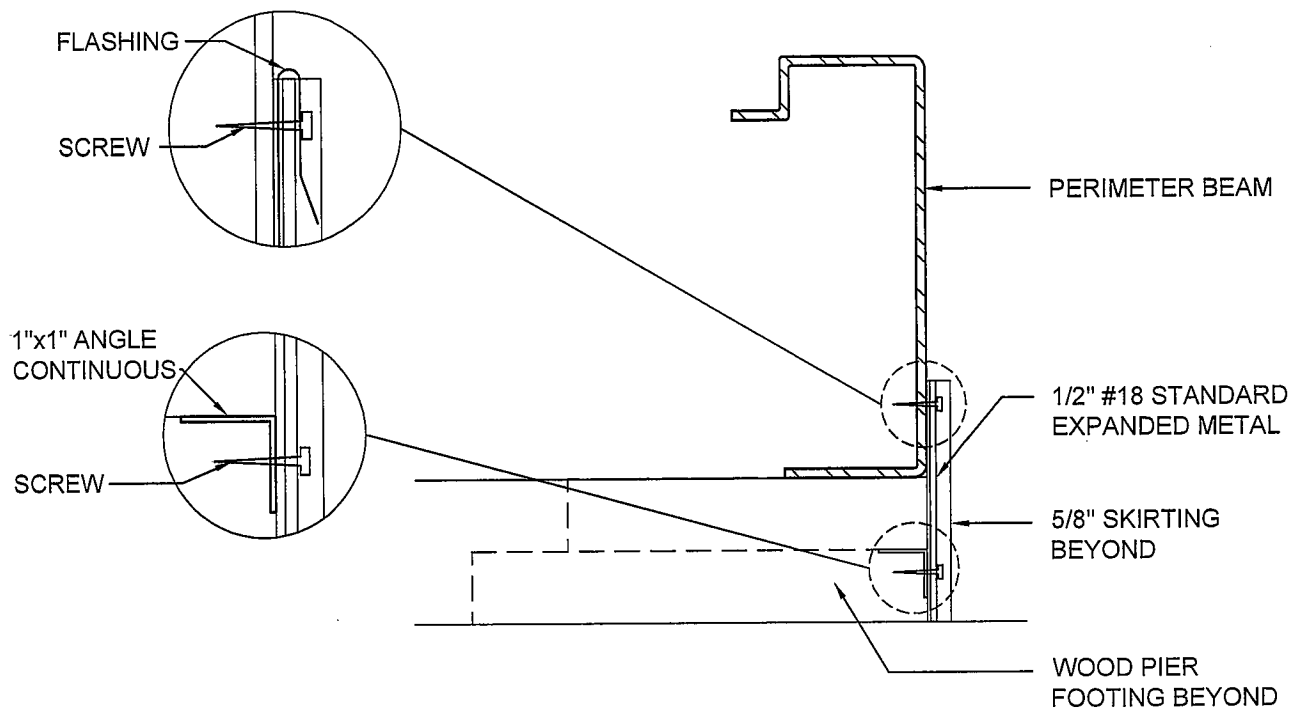
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SHEET NO.

RFP-03



1 ELEVATION 1-1/2"=1'-0"



2 ELEVATION 3"=1'-0"



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VENT WELL DETAIL

FIRE STATION #3 GYM

CITY OF MOUNTAIN VIEW

SCALE

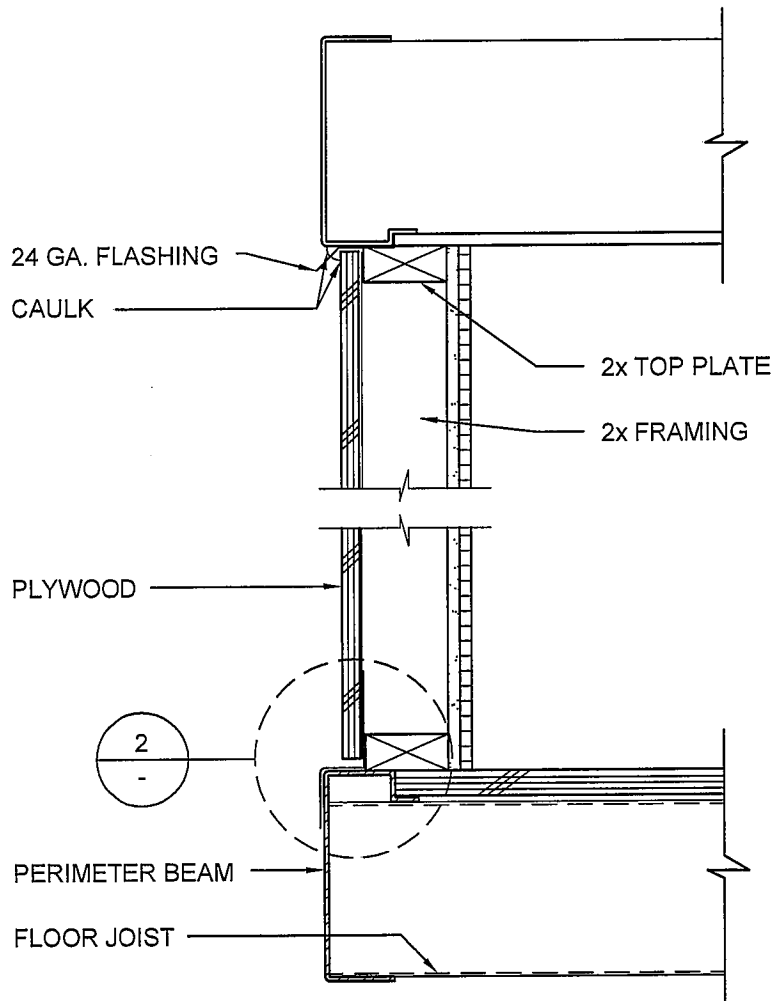
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PROJECT NO.  
81028

DATE  
11.04.08

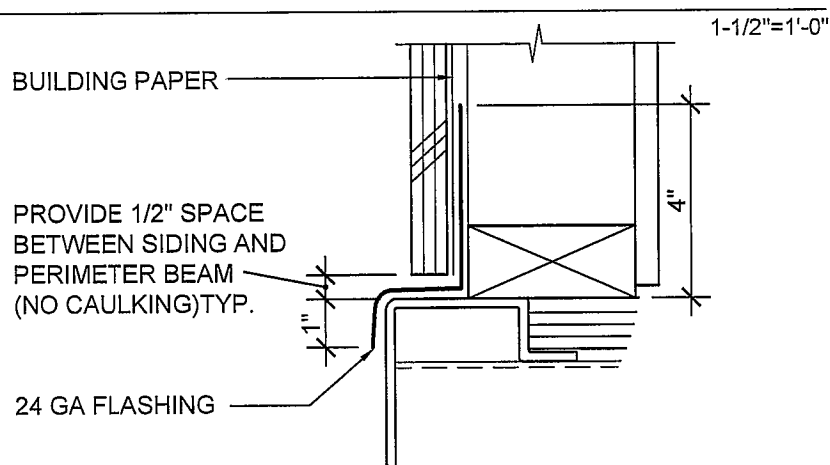
SHEET NO.

RFP-04



# SECTION

1



# DETAIL

2

3"=1'-0"



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## FLASHING DETAIL

## FIRE STATION #3 GYM

CITY OF MOUNTAIN VIEW

SCALE

SHOWN

PROJECT NO.  
81028

DATE  
11.04.08

SHEET NO.

RFP-05